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FORM PTO-1449 (REV. 2-82)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No. 1102865-0047	Serial No. 09/848,834
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants: Grimes et al.	
		Filing Date: May 4, 2001	Group: 1644

UNITED STATES PATENT DOCUMENTS

*Examiner Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date, if Appropriate
AA	5 0 2 3 0 7 7	June, 1991	Gevas, et al.	424	88	
AB	5 4 6 8 4 9 4	Nov, 1995	Gevas, et al.	424	195.11	
AC	5 6 8 8 5 0 6	Nov, 1997	Grimes, et al.	424	184.1	
AD	5 7 5 9 5 5 1	Feb 6, 1998	Ladd et al.	424	198.1	
AE	5 8 4 3 4 4 6	Jan 12, 1998	Ladd et al.	424	184.1	
AF	4 2 0 1 7 7 0	May 6, 1980	Stevens	424	177	
AG	5 8 8 5 9 6 6	Mar., 1999	Meloen et al.	514	13	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

AH	Kaumaya, Pravin T.P., Susan Kobs-Conrad, Ann M. DiGeorge, and Vernon C. Stevens, "De Novo Engineering of Peptide Immunogenic and Antigenic Determinants as Potential Vaccines" in <u>Peptide: Design, Synthesis, and Biological Activity</u> pp. 133-164. Channa Basava and G.M. Ananthatamaiah (Eds.) Birkhauser, Boston 1994.
AI	Young Hoon Seo, Susan Kobs-Conrad and Pravin T.P. Kaumaya. "Promiscuous T-Cell Epitopes of Tetanus Toxoid and Measles Virus Enhance Immune Responses to B-Cell Epitopes of the Prokin antigen LDH-C ₄ " in <u>Peptides</u> pp. 866-867. 1992 C.H. Schneider and A.N. Eberle (Eds.) 1993 ESCOM Science Publishe BV.
AJ	Pravin T.P.Kaumaya, Susan Kobs-Conrad, Young Hoon-Seo and Ann Marie DiGeorge "Template Vaccine Strategy Bypasses Hapto Type- Restricted Immune Responses" in <u>Peptide 1992</u> pp. 139-141. C.H. Schneider and A.N. Eberle (Eds.) 1993 ESCOM Science Publisher BV.

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BC	4	6	9	1	0	0	6	Sept. 1, 1987	Stevens	530	324	
BD	4	3	8	4	9	9	5	May 24, 1983	Stevens	260	112.5	
BE	5	3	2	4	5	1	2	June 28, 1994	Ladd et al	424	88	
BF	5	4	0	3	5	8	6	Apr. 4, 1995	Russell-Jones	424	192.1	
BG	5	2	0	4	1	0	8	Apr. 20, 1993	Illum	424	434	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

BH	Susan F. Kobs-Conrad, Ann Marie DiGeorge, Hyosil Lee and Pravin T.P. Kaumaya "Folding and Immunogenicity of a Loop-Structured Peptide Using the Zinc-Finger Motif" in <u>Peptides</u> 1992 C.H. Schneider And A.N. Eberle (Eds.) 1993 <u>ESCOM Science Publisher BV</u> .
BI	Pravin T.P. Kaumaya, Susan Kobs-Conard, Young Hoon-Lee, Hyosil Lee, Anne M. Van Buskirk, Ningguo Feug, John F. Sheridan and Vernon Stevens "Peptide Vaccines Incorporating a 'Promiscuous' T-Cell Epitope Bypass Certain Haplotype Restricted Immune Responses and Provide Broad Spectrum Immunogenicity". <u>Journal of Molecular Recognition</u> , Vol. 6, 81-91 (1993).
BJ	Susan Kobs-Conrad, Hyosil Lee, Ann M., DiGeorge, and Pravin T.P. Kaumaya "Engineered Topographic Determinants with $\alpha\beta$, $\beta\&\beta$, and $\beta\alpha\beta\alpha$ Topologies Show High Affinity Binding to Native Protein Antigen (Lactate dehydrogenase-C ₄)" (1993) <u>The Journal of Biological Chemistry</u> 268(34): 25285-25295.

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CB	5	3	7	8	6	8	8	Jan. 3, 1995	Nett et al	514	15	
CC	4	6	0	8	2	5	1	Aug. 26, 1986	Mia	424	85	
CD	5	1	0	9	0	2	6	Apr. 28, 1992	Hoskinson	514	777	
CE	4	6	1	8	5	9	8	Oct. 21, 1986	Conn	514	6	

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CF	Pravin T.P. Kaumaya, Anne M. Vau Buskirk, Eruin Goldberg, and Susan U. Piece "Design and Immunological Properties of Topographic Immunogenic Determinants of a Protein Antigen (LDH-C ₄) as Vaccines". (1992) <u>Journal of Biological Chemistry</u> 267(9): 6338-6346.
CG	Susan F. Conrad, In-Ja L. Byeon, Ann M. DiGeorge, Michael D. Lairmore, Ming-Daw Tsai and Pravin T.P. Kaumay. "Immunogenicity and Conformational Properties of an N-Linked Glycosylated Peptide Epitope of Human T-Lymphotropic Virus Type 1 (HTLV-I). <u>Biomedical Peptides, Proteins & Nucleic Acids</u> , Vol. 1, 83-92 (1995).
CH	Pierre L. Triozzi, Gary D. Stoner and Pravin T.P. Kaumaya "Subunit Peptide Cancer Vaccines Targeting Activating Mutations of the p21 Ras Proto-Oncogene". <u>Biomedical Peptides, Proteins & Nucleic Acids</u> , Vol. 1, 185-192 (1995).

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DA	5 4 8 8 0 3 6	Jan. 1996	Nett et al	514	15	
DB	5 8 1 7 7 5 3	Oct. 1998	Stevens	530	324	
DC	5 4 2 2 1 1 0	6/1995	Potter et al.	424	255.1	
DD	5 6 3 3 2 4 8	May 97	Kato et al	514	212	
DE	5 6 4 8 3 4 0	July 97	Barnea	514	21	
DF	5 8 3 7 2 6 8	11/98	Potter et al.	424	255.1	
DG	5 6 8 4 1 4 5	Nov. 97	Vander Zee	536	23.51	
DH	5 7 2 3 1 2 9	March 98	Potter et al	424	200.1	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

DI	Michael D. Lairmore, Renu B. Lal, and Pravin T.P. Kaumaya. "Evaluation of Immunodominant Epitopes of Human T-Lymphotropic Virus Type 1 (HTLV-I) Using Synthetic Peptides. <u>Biomedical Peptides, Proteins & Nucleic Acids</u> , Vol. 1, 117-122 (1995).
DJ	Michael D. Lairmore, Ann M. DiGeorge, Susan F. Conrad, Ales V. Trevino, Renu B. Lal, and Pravin T.P. Kaumaya. "Human T-lymphotropic virus type 1 peptides in chimeric and multivalent constructs with promiscuous T-Cell epitopes enhance immunogenicity and overcome genetic restriction". <u>Journal of Virology</u> . Oct. 1995, pp. 6077-6089.
DK	Thomas P. Hopp and Kenneth R. Woods. "Prediction of Protein Antigenic Determinants from Amino Acid Sequences". <u>Proc. Natl. Acad. Sci. USA</u> 78 (1981).

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EA	5 7 0 8 1 5 5	1/1998	Potter	536	23.4	

FOREIGN PATENT DOCUMENTS

*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes No
EB	9 0 0 2 1 8 7	March 1990	WIPO			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EC	Gjalt W. Welling, Wicher J. Weijer, Ruurd van der Zee and Sytske Welling Wester. "Prediction of Sequential Antigenic Regions in Proteins". <u>FEBS</u> Vol. 188(2), p. 215-219; Sept. 1985
ED	Jack Kyte and Russell F. Doolittle. "A simple method for displaying the hydropathic character of a protein". <u>J. Mol. Biol.</u> (1982) 157, 105-132.
EE	J.M. Thornton, M.S. Edwards, W.R. Taylor and D.J. Barlow. "Location of 'Continuous' Antigenic determinants in the protruding regions of proteins" (1986); pp. 409-411.
EF	P.A. Karplus and G.E. Schulz. "Prediction of chain flexibility in proteins". <u>Naturwissenschaften</u> 72(1985) 212-213.
EG	George D. Rose, Ari R. Geselowitz, Glenn J. Lesser, Richard H. Lee, Micheal H. Zehfus. "Hydrophobicity of amino acid residues in globular proteins". <u>Science</u> 229: 834-838.
EH	Peter Y. Chou and Gerald D. Fasman. "Prediction of the secondary structure of proteins from their amino acid Sequence" Pages 45-141.

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FA	6 0 2 5 4 6 8	2/2000	Wang	530	324	
FB	4 7 8 0 3 1 2	10/1988	Talwar	424	88	

FOREIGN PATENT DOCUMENTS

*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes No
FC	9 7 1 5 3 2 5	5/1997	WO			
FD	0 5 7 8 2 9 3	1/1994	EP			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

FE	Pravin T.P. Kaumaya. "Synthetic Peptide Vaccines: Dream or Reality?" <u>Peptides in Immunology</u> . C.H. Schneider, Ed. 1996. John Wiley & Sons, Ltd. p.117-148.
FF	Pravin T.P. Kaumaya, Susan Kobs-Conrd, and Ann M. DiGeorge. "Synthetic Peptide Vaccines: Misconceptions and Problems, Strategies and Prospects". Chapter 42 in pp. 279-292.
FG	Lori A. Smolenski, Pravin Kaumaya, M. Zouhair Atassi and Susan K. Pierce. "Characteristics of Peptides Which Compete for Presented Antigen-Binding Sites on Antigen-Presenting Cells". <u>Eur. J. Immunol.</u> 1990. 20: 953-960.
FH	Lisa A. Casten, Pravin Kaumaya, and Susan K. Pierce. "Enhanced T-Cell Responses to Antigenic Peptides Targeted to B-Cell Surface Ig, Ia, or Class I Molecules". <u>J. Exp. Med.</u> Vol. 168 (1988), 171-180.
FI	A. Ladd Review: Progress in the development of anti-LHRH vaccine. <u>American J. Reproductive Immunology</u> 29 (1993) 189-194.

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	GA	6	2	2	8	9	8	7	5/2001	Wang	530	324	
	GB	5	4	8	4	5	9	2	1/1996	Meloen et al.	424	185.1	

FOREIGN PATENT DOCUMENTS

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GB	9	1	0	2	7	9	9	3/1991	WO					
GC	9	4	2	5	0	6	0	11/1994	WO					
GD	2	2	2	8	2	6	2	1/1990	GB					
GE	9	0	0	2	1	8	7	3/1990	WO					
GF	9	2	1	9	7	4	6	11/1992	WO					

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GF	S. Sad et al. "Synthetic gonadotrophin-releasing hormone (GnRH) vaccines incorporating GnRH and synthetic T-helper epitopes." 1993 <u>Vaccine</u> 11: 1145-1149.
GG	S. Ghosh and D.C. Jackson "Antigenic and immunogenic properties of totally synthetic peptide-based anti-fertility vaccines" (1999) <u>International Immunology</u> 11 (7) pp. 1103-1110.
GH	S. Sad, K. Rao et al. "Bypass of carrier-induced epitope-specific suppression using a T-helper epitope", <u>Immunology</u> .

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	AC 5 6 8 8 5 0 6	Nov, 1997	Grimes, et al.	424	184.1	
	AD 5 7 5 9 5 5 1	Feb 6, 1998	Ladd et al.	424	198.1	
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	AI	Young Hoon Seo, Susan Kobs-Conrad and Pravin T.P. Kaumaya. "Promiscuous T-Cell Epitopes of Tetanus Toxoid and Measles Virus Enhance Immune Responses to B-Cell Epitopes of the Prokin antigen LDH-C ₄ " in <u>Peptides</u> pp. 866-867. 1992 C.H. Schneider and A.N. Eberle (Eds.) 1993 ESCOM Science Publishe BV.
✓	AJ	Pravin T.P. Kaumaya, Susan Kobs-Conrad, Young Hoon-Seo and Ann Marie DiGeorge "Template Vaccine Strategy Bypasses Hapto Type- Restricted Immune Responses" in <u>Peptide 1992</u> pp. 139-141. C.H. Schneider and A.N. Eberle (Eds.) 1993 ESCOM Science Publisher BV.

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✓	CH	Pierre L. Triozzi, Gary D. Stoner and Pravin T.P. Kaumaya "Subunit Peptide Cancer Vaccines Targeting Activating Mutations of the p21 Ras Proto-Oncogene". <u>Biomedical Peptides, Proteins & Nucleic Acids</u> , Vol. 1, 185-192 (1995).

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	DD 5 6 3 3 2 4 8	May 97	Kato et al	514	212	
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✓	DH 5 7 2 3 1 2 9	March 98	Potter et al	424	200.1	

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✓	DK	Thomas P. Hopp and Kenneth R. Woods. "Prediction of Protein Antigenic Determinants from Amino Acid Sequences". <u>Proc. Natl. Acad. Sci. USA</u> 78 (1981).

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

PJK	EC	Gjalt W. Welling, Wicher J. Weijer, Ruurd van der Zee and Sytske Welling Wester. "Prediction of Sequential Antigenic Regions in Proteins". <u>FEBS</u> Vol. 188(2), p. 215-219; Sept. 1985
	ED	Jack Kyte and Russell F. Doolittle. "A simple method for displaying the hydropathic character of a protein". <u>J. Mol. Biol.</u> (1982) 157, 105-132.
	EE	J.M. Thornton, M.S. Edwards, W.R. Taylor and D.J. Barlow. "Location of 'Continuous' Antigenic determinants in the protruding regions of proteins" (1986); pp. 409-411.
	EF	P.A. Karplus and G.E. Schulz. "Prediction of chain flexibility in proteins". <u>Naturwissenschaften</u> 72(1985) 212-213.
	EG	George D. Rose, Ari R. Gershowitz, Glenn J. Lesser, Richard H. Lee, Micheal H. Zehfus. "Hydrophobicity of amino acid residues in globular proteins". <u>Science</u> 229: 834-838.
✓	EH	Peter Y. Chou and Gerald D. Fasman. "Prediction of the secondary structure of proteins from their amino acid Sequence" Pages 45-141.

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FORM PTO-1449 (REV. 2-82)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No. 1102865-0047	Serial No. 09/848,834
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants: Grimes et al.	
		Filing Date: May 4, 2001	Group: 1644

UNITED STATES PATENT DOCUMENTS

*Examiner Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date, if Appropriate
PJK	FA 6 0 2 5 4 6 8	2/2000	Wang	530	324	
↓	FB 4 7 8 0 3 1 2	10/1988	Talwar	424	88	

FOREIGN PATENT DOCUMENTS

*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes No
PJK	FC 9 7 1 5 3 2 5	5/1997	WO			
↓	FD 0 5 7 8 2 9 3	1/1994	EP			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

PJK	FE	Pravin T.P. Kaumaya. "Synthetic Peptide Vaccines: Dream or Reality?" <u>Peptides in Immunology</u> . C.H. Schneider, Ed. 1996. John Wiley & Sons, Ltd. p.117-148.
	FF	Pravin T.P. Kaumaya, Susan Kobs-Conrd, and Ann M. DiGeorge. "Synthetic Peptide Vaccines: Misconceptions and Problems, Strategies and Prospects". Chapter 42 in pp. 279-292.
	FG	Lori A. Smolenski, Pravin Kaumaya, M. Zouhair Atassi and Susan K. Pierce. "Characteristics of Peptides Which Compete for Presented Antigen-Binding Sites on Antigen-Presenting Cells". <u>Eur. J. Immunol.</u> 1990. 20: 953-960.
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		Filing Date: May 4, 2001	Group: 1644

UNITED STATES PATENT DOCUMENTS

*Examiner Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date, if Appropriate
Psk	GA 6 2 2 8 9 8 7	5/2001	Wang	530	324	
✓	GB 5 4 8 4 5 9 2	1/1996	Meloen et al.	424	185.1	

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*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes	No
Psk	GB 9 1 0 2 7 9 9	3/1991	WO				
↓	GC 9 4 2 5 0 6 0	11/1994	WO				
↓	GD 2 2 2 8 2 6 2	1/1990	GB				
↓	GE 9 0 0 2 1 8 7	3/1990	WO				
↓	GF 9 2 1 9 7 4 6	11/1992	WO				

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Psk	GF	S. Sad et al. "Synthetic gonadotrophin-releasing hormone (GnRH) vaccines incorporating GnRH and synthetic T-helper epitopes." 1993 <u>Vaccine</u> 11: 1145-1149.
↓	GG	S. Ghosh and D.C. Jackson "Antigenic and immunogenic properties of totally synthetic peptide-based anti-fertility vaccines" (1999) <u>International Immunology</u> 11 (7) pp. 1103-1110.
↓	GH	S. Sad, K. Rao et al. "Bypass of carrier-induced epitope-specific suppression using a T-helper epitope", <u>Immunology</u> .

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants: Grimes et al.	
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*Examiner Initial	Document No.	Date of Publication	Country	Class	Sub-Class	Translation Yes No
PJK	9 9 6 6 9 5 2	29 Dec. 1999	WO			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:

Phyllis S.

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